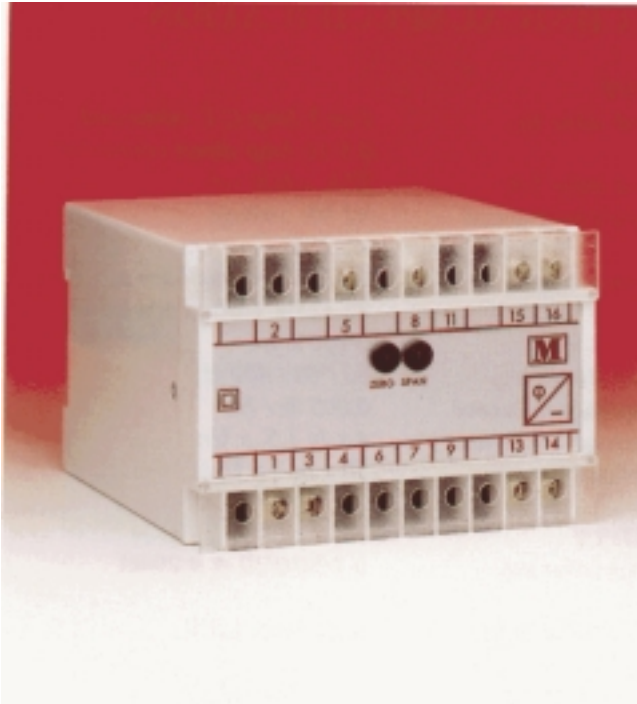


PHASE ANGLE



TECHNICAL SPECIFICATION

INPUT

Rated value In	1 or 5 Amp C.T. connected 0.5-10 Amp direct connected
Rated value Un	57.8 < 600 volt
Power consumption	<1 VA voltage (aux powered) <2.5 VA voltage (self powered) <0.2 VA current
Working range	15-125% Un auxiliary powered 75-125% Un self powered 10-150% In
Measuring range	± 45 / 60 / 90 / 180° MI100-PA1 ± 45 / 60° MI100-PA2 ± 90 / 180° MI100-PA3
Rated Frequency	50 / 60 / 400 Hz
Frequency influence	0.005 % / Hz
Overload continuous	4 x In 1.5 x Un
Overload for 1 sec.	50 x In 2 x Un
ACCURACY	± 1 Degree

OUTPUT

Rated value mA	0-1/5/10/20 & 4-20mA
Rated Value Volts	0-5 / 10 & 1-5 V

ADJUSTMENT

Zero	± 2%
Span	± 10%

AUXILIARY

A.C. Voltage	115 / 230 / 400 V (± 25% / 45-65 Hz / < 2VA)
D.C. Voltage	24 / 48 / 110 V (± 20% galvanically isolated / < 3W)

WEIGHT & CASE SIZE Approx. 0.6 kg. 100mm case

SELECTION GUIDE

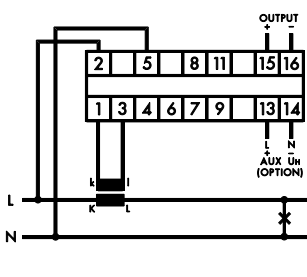
MI100-PA1	Single phase 4 quadrants
MI100-PA2	3 phase 3 or 4 wire balanced 2 quadrants
MI100-PA3	3 phase 3 or 4 wire balanced 4 quadrants
MI100-PV1	Single phase 4 quadrants phase angle between two voltages

TYPICAL APPLICATIONS

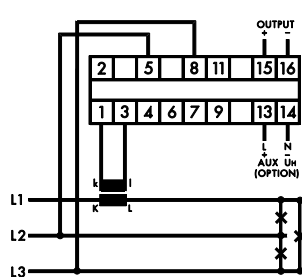
The MI100-PA series of phase angle transducers measure the phase angle between current and voltage. They can be used on single and 3 phase 3 or 4 wire balanced systems. Ideal for optimising power factor correction.

The MI100-PV2 measures the phase angle between two voltage supplies and provides a D.C. Output signal proportional to the phase angle between the voltages.

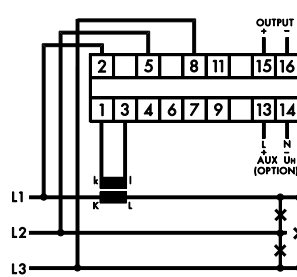
CONNECTION DIAGRAMS



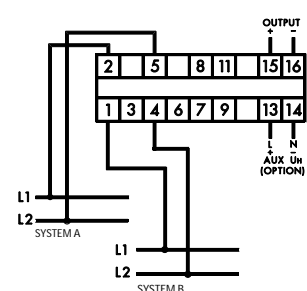
MI100-PA1



MI100-PA2



MI100-PA3



MI100-PV1

ORDERING INFORMATION

Product code	I/P	In	Un	O/P Range	Aux. Freq.	Opt.
MI100-PA2		5Amp	400V	± 45°	120V	60Hz

OPTIONS

1. Non standard inputs / outputs only as far as technically acceptable.
2. A.C. Auxiliary in range 57.7 to 450 volts
3. Calibration at nominal Hz 35.....450Hz
4. Calibration at temperature other than 23°C

CONNECTION DIAGRAMS